

Q2 21<sup>14</sup> 13.  
14. (New) A process as claimed in claim 1, wherein hydrogen chloride is used in form of hydrochloric acid.

21<sup>14</sup> 14.  
15. (New) A process as claimed in claim 1, wherein the amount of cocatalyst is from 5 to  $10^3$  mol per gram atom of rhodium.

21<sup>14</sup> 15.  
16. (New) A process as claimed in claim 1, wherein, in addition, hydrogen is added to the reaction medium.

21<sup>14</sup> 16.  
17. (New) A process as claimed in claim 1, wherein, in addition, at least one organic halide is dissolved in the reaction medium.

21<sup>14</sup> 17.  
18. (New) A process as claimed in claim 1, wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>6</sub>-alkyl or phenyl.

21<sup>14</sup> 18.  
19. (New) A process as claimed in claim 18, wherein R<sup>1</sup> is methyl.

21<sup>14</sup> 19.  
20. (New) A process as claimed in claim 1, wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> are hydrogen.

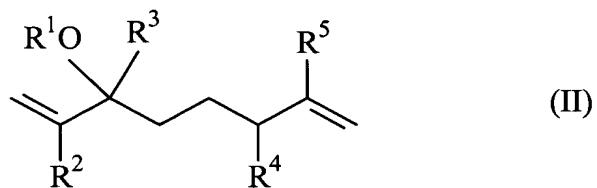
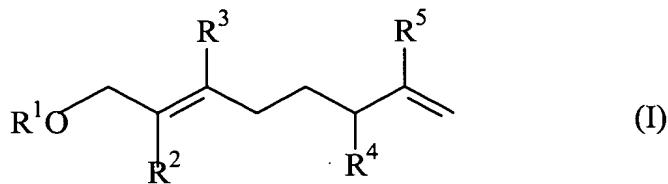
21<sup>14</sup> 20.  
21. (New) A process as claimed in claim 1, wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>6</sub>-alkyl or phenyl, and R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> are hydrogen.

21<sup>14</sup> 21.  
22. (New) A process as claimed in claim 21, wherein R<sup>1</sup> is methyl.

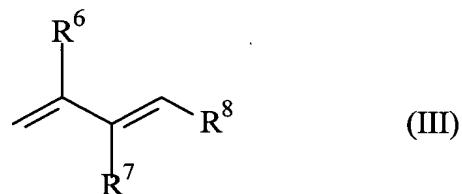
21<sup>14</sup> 22.  
23. (New) A process as claimed in claim 1, wherein the rhodium compound is selected from rhodium(III) salts, in particular rhodium trichloride, and  $\pi$ -allyl complexes of rhodium, in particular bis( $\pi$ -crotyl)tetrachloro(butadiene)dirhodium.

21<sup>14</sup> 23.  
24. (New) A method for cocatalyzing the homogeneously catalyzed reaction, carried out in the presence of rhodium compounds, of 1-substituted alka-2,7-dienes of the formula I and/or 3-substituted alka-1,7-dienes of the formula II,

Q2 cont.



where  $R^1$  is hydrogen or  $C_1$ - $C_6$ -alkyl,  $C_5$ - $C_8$ -cycloalkyl,  $C_1$ - $C_6$ -alkanoyl,  $C_6$ - $C_{12}$ -aryloyl or  $C_7$ - $C_{18}$ -aralkyl each of which may be unsubstituted or monosubstituted, disubstituted or trisubstituted by hydroxy,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkanoyloxy and/or halogen, and  $R^2$ ,  $R^3$ ,  $R^4$  and  $R^5$  are, independently of one another, hydrogen or  $C_1$ - $C_6$ -alkyl, with 1,3-conjugated dienes of the formula III



where  $R^6$  and  $R^7$  are, independently of one another, hydrogen or  $C_1$ - $C_6$ -alkyl, and  $R^8$  is hydrogen,  $C_1$ - $C_6$ -alkyl or  $C_2$ - $C_6$ -alkenyl,

which method comprises dissolving hydrogen chloride,  $GeCl_4$  and/or  $WCl_6$  in the reaction mixture.

24. 25. (New) A method for preparing a surface-active material, which method comprises providing alkapolyyenyl compounds obtained by a process as claimed in claim 1

*Q* *Recd*  
and reacting said alkopolyenyl compounds in a manner known per se to obtain the surface-active material.

REMARKS

Claims 1-3 and 14-25 are active in the present application. Support for new Claims 14-25 is found in the original claims. Claims 14-25 are new claims. The specification has been amended to replace the title with a new title. No new matter is added. An action on the merits and allowance of claims is solicited.

Respectfully submitted,

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